

What is claimed:

1. A communication system, comprising:
a circuit switch network;
a packet switch data network configured to assign network addresses in a dynamic fashion;
a client device configured to send and receive package switched and circuit switched communications over the packet switched data network and the circuit switch data network, respectively; and
a central authority configured to send a circuit switch message to the client device through the circuit switched data network requesting that the client device register with the central authority through the packet switch network.
2. The communication system of claim 1, wherein the circuit switch message sent to the client device is a short message service message.
3. The communication system of claim 1, wherein the central authority is further configured to receive a packet switched registration message from the client device in response to the circuit switched message sent to the client device.
4. The communication system of claim 3, wherein the central authority is further configured to extract a packet data network address associated with the client device from the package switch registration message received from the client device.
5. The communication system of claim 4, wherein the central authority comprises a data base configured to store information related to the client device, and

wherein the central authority is configured to update the data stored in the data base based on information contained in the received packet switched registration message.

6. The communication system of claim 5, wherein the central authority is further configured to update the information stored in the data base based on the packet data network address extracted from the received packet switch registration message.

7. The communication system of claim 6, wherein the central authority is further configured to send a message to the client device using the packet data network address stored in the data base.

8. The communication system of claim 1, wherein the central authority is further configured to send the circuit switched message to the client device using a circuit switched network address associated with the client device.

9. The communication system of claim 8, wherein the circuit switched network identifier is a mobile identification number associated with the client device.

10. The communication system of claim 1, wherein the client device is further configured to receive the circuit switched message from the central authority and send a packet switched registration message through the packet switched data network to the central authority in response to the received circuit switched message.

11. The communication system of claim 10, wherein the client device is further configured to include a packet switched network address with the packet switched registration message sent to the central authority.

12. The communication system of claim 11, wherein the client device is further configured to send a new packet switched registration message whenever the packet switched data network assigns the client device a new packet switched network address.

13. The communication system of claim 1, wherein the central authority is further configured to send a new circuit switch message to the client device if the client device has not communicated with the central authority for a predetermined time.

14. The communication system of claim 1, further comprising a shared secret that is shared between the client device and the central authority, wherein the shared secret is used for authentication.

15. The communication system of claim 14, wherein the central authority is further configured to encrypt the circuit switched message sent to the client device using the shared secret.

16. The communication system of claim 1, wherein the central authority comprises a random or pseudo-random number generator, and wherein the circuit switched message sent to the client device includes a random or pseudo-random number generated by the random or pseudo-random number generator.

17. The communication system of claim 16, wherein the central authority is further configured to encrypt the circuit switched message sent to the client device

using a random or pseudo-random number generated by the random or pseudo-random number generator.

18. The communication system of claim 1, wherein the client device is further configured to receive the circuit switched message sent by the central authority and to decrypt the circuit switched message.

19. The communication system of claim 1, wherein the client device is further configured to extract a random or pseudo-random number from the decrypted circuit switched message received from the central authority, and wherein the client device is further configured to generate an package switched registration message in response to the received circuit switched message.

20. The communication system of claim 1, wherein the client device is further configured to encrypt the packet switch registration message using the random or pseudo-random number extracted from the decrypted circuit switched message.

21. The communication system of claim 1, wherein the client device further comprises an authentication factor, and wherein the client device is further configured to include the authentication factor in the packet switched registration message sent to the central authority.

22. The communication system of claim 21, wherein the authentication factor is an electronic serial number associated with the client device.

23. The communication system of claim 21, wherein the authentication factor is a mobile identification number associated with a client device.

24. The communication system of claim 1, wherein the central authority is further configured to receive a packet switched registration message from the client device in response to the circuit switch message sent to the client device, and wherein the central authority is further configured to extract an authentication factor from the packet switched registration message received from the client device.

25. A central authority comprising circuit switched data communication capability and packet switched data communication capability, the central authority configured to send a circuit switch message to a client device through a circuit switched data network requesting that the client device register with the central authority through a packet switch network.

26. The central authority of claim 25, wherein the circuit switch message sent to the client device is a short message service message.

27. The central authority of claim 25, further configured to receive a packet switched registration message from the client device in response to the circuit switched message sent to the client device.

28. The central authority of claim 27, further configured to extract a packet data network address associated with the client device from the package switch registration message received from the client device.

29. The central authority of claim 28, further comprising a data base configured to store information related to the client device, and wherein the central

authority is configured to update the data stored in the data base based on information contained in the received packet switched registration message.

30. The central authority of claim 29, further configured to update the information stored in the data base based on the packet data network address extracted from the received packet switch registration message.

31. The central authority of claim 30, further configured to send a message to the client device using the packet data network address stored in the data base.

32. The central authority of claim 25, further configured to send the circuit switched message to the client device using a circuit switched network address associated with the client device.

33. The central authority of claim 32, wherein the circuit switched network identifier is a mobile identification number associated with the client device.

34. The central authority of claim 25, further comprising a shared secret that is shared between the client device and the central authority, wherein the shared secret is used for authentication.

35. The central authority of claim 34, further configured to encrypt the circuit switched message sent to the client device using the shared secret.

36. The central authority of claim 25, further comprising a random or pseudo-random number generator, and wherein the circuit switched message sent to

the client device includes a random or pseudo-random number generated by the random or pseudo-random number generator.

37. The central authority of claim 36, further configured to encrypt the circuit switched message sent to the client device using a random or pseudo-random number generated by the random or pseudo-random number generator.

38. The central authority of claim 25, further configured to receive a packet switched registration message from the client device in response to the circuit switch message sent to the client device, and wherein the central authority is further configured to extract an authentication factor from the packet switched registration message received from the client device.

39. A client device comprising circuit switched data communication capability and packet switched data communication capability, the client device configured to receive a circuit switched message from a central authority and send a packet switched registration message through a packet switched data network to the central authority in response to the received circuit switched message.

40. The client device of claim 39, further configured to include a packet switched network address with the packet switched registration message sent to the central authority.

41. The client device of claim 39, further configured to send a new packet switched registration message whenever the packet switched data network assigns the client device a new packet switched network address.

42. The client device of claim 39, further configured to receive the circuit switched message sent by the central authority and to decrypt the circuit switched message.

43. The client device of claim 39, further configured to extract a random or pseudo-random number from the decrypted circuit switched message received from the central authority, and wherein the client device is further configured to generate an package switched registration message in response to the received circuit switched message.

44. The client device of claim 39, further configured to encrypt the packet switch registration message using the random or pseudo-random number extracted from the decrypted circuit switched message.

45. The client device of claim 39, further comprises an authentication factor, and wherein the client device is further configured to include the authentication factor in the packet switched registration message sent to the central authority.

46. The client device of claim 45, wherein the authentication factor is an electronic serial number associated with the client device.

47. The client device of claim 45, wherein the authentication factor is a mobile identification number associated with a client device.